

CLAIMS

Claim-1

A magnetically anisotropic sintered magnet consisting essentially of, by atomic percent, 14-18% R wherein R is Nd and/or Pr, 9-18% B, 0.5-5% A wherein A is the total of Al, Si and Cu and at least one of Cr, Mn and Ni and provided that, the range of each element is

Al	0.2-2.0%,	Si	0.01-0.5%
Cu	0.03-0.6%	Cr	0.02-3.0%
Mn	0.05-1.0%	Ni	0.02-1.0%

and the balance being Fe.

Claim-2

A magnetically anisotropic sintered magnet consisting essentially of, by atomic percent, 14-18% R wherein R is Nd and/or Pr, 9-18% B, 0.5-5% A wherein A is the total of Al, Si and Cu and at least one of Cr, Mn and Ni and provided that, the range of each element is

Al	0.2-2.0%,	Si	0.01-0.5%
Cu	0.03-0.6%	Cr	0.02-3.0%
Mn	0.05-1.0%	Ni	0.02-1.0%

less than 2.0% of a total amount of less than 2.0% of at least one selected from V, Mo, Nb and W and less than 1.0% at least one selected from of

Zn, Ti, Zr, Hf, Ta, Ge, Sn, Bi, Ca, Mg
and the balance being Fe.

Claim-3

A magnetically anisotropic sintered magnet consisting essentially of,
by atomic percent, 14-18% R wherein R is Nd and/or Pr, 9-18% B, 0.5-5%
A
wherein A is the total of Al, Si and Cu and at least one of Cr, Mn and
Ni and provided that, the range of each element is

Al	0.2-2.0%,	Si	0.01-0.5%
Cu	0.03-0.6%	Cr	0.02-3.0%
Mn	0.05-1.0%	Ni	0.02-1.0%

less than 10% Co and the balance being Fe.

Claim-4

A magnetically anisotropic sintered magnet consisting essentially of,
by atomic percent, 14-18% R
wherein R is less than 2.5% of Dy and/or Tb as a part of R and the
balance of R
being Nd and/or Pr,
9-18% B,
wherein A is the total of Al, Si and Cu and at least one of Cr, Mn and
Ni and provided that, the range of each element is

Al	0.2-2.0%,	Si	0.01-0.5%
Cu	0.03-0.6%	Cr	0.02-3.0%
Mn	0.05-1.0%	Ni	0.02-1.0%

and the balance being Fe.

Claim-5

A magnetically anisotropic sintered magnet consisting essentially of, by atomic percent, 14-18% R wherein R is less than 2.5% of Dy and/or Tb as a part of R and the balance of R being Nd and/or Pr, 9-18% B, 0.5-5% A wherein A is the total of Al, Si and Cu and at least one of Cr, Mn and Ni an provided that, the range of each element is

Al	0.2-2.0%,	Si	0.01-0.5%
Cu	0.03-0.6%	Cr	0.02-3.0%
Mn	0.05-1.0%	Ni	0.02-1.0%

less than 2.0% of a total amount of less than 2.0% of at least one selected from V, Mo, Nb and W and less than 1.0% at least one selected from of Zn, Ti, Zr, Hf, Ta, Ge, Sn, Bi, Ca, Mg less than 10% Co and the balance being Fe.